RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/748,128A_

Source: _1Fwo,_

Date Processed by STIC: _10/29/04_

ENTERED

RAW SEQUENCE LISTING   DATE: 10/29/2004
PATENT APPLICATION: US/10/748,128A   TIME: 12:40:43

Input Set : A:\666821-058(2).TXT
Output Set: N:\CRF4\10292004\J748128A.raw

```
   4 <110> APPLICANT: Reed, John C.
   5        Houghten, Richard A.
   6        Nefzi, Adel
   7        Ostresh, John M.
   8        Pinilla, Clemencia
   9        Welsh, Kate
  11 <120> TITLE OF INVENTION: Methods and Compositions for
  12        Derepression of IAP-Inhibited Caspase
  15 <130> FILE REFERENCE: 66821-058
  17 <140> CURRENT APPLICATION NUMBER: US 10/748,128A
  18 <141> CURRENT FILING DATE: 2003-12-24
  20 <150> PRIOR APPLICATION NUMBER: US 60/331,957
  21 <151> PRIOR FILING DATE: 2001-11-21
  23 <150> PRIOR APPLICATION NUMBER: US 10/302,811
  24 <151> PRIOR FILING DATE: 2002-11-21
  26 <160> NUMBER OF SEQ ID NOS: 16
  28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
  30 <210> SEQ ID NO: 1
  31 <211> LENGTH: 5
  32 <212> TYPE: PRT
  33 <213> ORGANISM: Artificial Sequence
  35 <220> FEATURE:
  36 <223> OTHER INFORMATION: synthetic construct
W--> 38 <221> NAME/KEY: VARIANT
  39 <222> LOCATION: 4
  40 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 42 <400> 1
W--> 43 Gln Ala Cys Xaa Gly
  44  1               5
  47 <210> SEQ ID NO: 2
  48 <211> LENGTH: 4
  49 <212> TYPE: PRT
  50 <213> ORGANISM: Artificial Sequence
  52 <220> FEATURE:
  53 <223> OTHER INFORMATION: synthetic construct
  55 <400> SEQUENCE: 2
  56 Asp Glu Val Asp
  57  1
  60 <210> SEQ ID NO: 3
  61 <211> LENGTH: 4
  62 <212> TYPE: PRT
  63 <213> ORGANISM: Artificial Sequence
  65 <220> FEATURE:
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      66 <223> OTHER INFORMATION: synthetic construct
      68 <400> SEQUENCE: 3
      69 Tyr Val Ala Asp
      70  1
      73 <210> SEQ ID NO: 4
      74 <211> LENGTH: 4
      75 <212> TYPE: PRT
      76 <213> ORGANISM: Artificial Sequence
      78 <220> FEATURE:
      79 <223> OTHER INFORMATION: synthetic construct
      81 <400> SEQUENCE: 4
      82 Ala Val Pro Ile
      83  1
      86 <210> SEQ ID NO: 5
      87 <211> LENGTH: 7
      88 <212> TYPE: PRT
      89 <213> ORGANISM: Artificial Sequence
      91 <220> FEATURE:
      92 <223> OTHER INFORMATION: synthetic construct
W--> 94 <221> NAME/KEY: AMIDATION
      95 <222> LOCATION: 7
      96 <223> OTHER INFORMATION: at the C-terminus
W--> 98 <221> MOD_RES
      99 <222> LOCATION: 1
     100 <223> OTHER INFORMATION: hydrogenated at the N-terminus
W--> 102 <400> 5
     103 Ala Val Pro Ile Ala Gln Lys
     104  1               5
     107 <210> SEQ ID NO: 6
     108 <211> LENGTH: 4
     109 <212> TYPE: PRT
     110 <213> ORGANISM: Artificial Sequence
     112 <220> FEATURE:
     113 <223> OTHER INFORMATION: synthetic peptide
     115 <400> SEQUENCE: 6
     116 Ala Val Pro Ser
     117  1
     120 <210> SEQ ID NO: 7
     121 <211> LENGTH: 6
     122 <212> TYPE: PRT
     123 <213> ORGANISM: Artificial Sequence
     125 <220> FEATURE:
     126 <223> OTHER INFORMATION: synthetic peptide
W--> 128 <221> NAME/KEY: VARIANT
     129 <222> LOCATION: (1)...(2)
     130 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 132 <400> 7
W--> 133 Xaa Xaa Ala Ala Trp Trp
     134  1               5
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        137 <210> SEQ ID NO: 8
        138 <211> LENGTH: 6
        139 <212> TYPE: PRT
        140 <213> ORGANISM: Artificial Sequence
        142 <220> FEATURE:
        143 <223> OTHER INFORMATION: synthetic peptide
W-->    145 <221> NAME/KEY: VARIANT
        146 <222> LOCATION: (1)...(2)
        147 <223> OTHER INFORMATION: Xaa = any amino acid
W-->    149 <400> 8
W-->    150 Xaa Xaa Gly Ala Trp Trp
        151 1               5
        154 <210> SEQ ID NO: 9
        155 <211> LENGTH: 6
        156 <212> TYPE: PRT
        157 <213> ORGANISM: Artificial Sequence
        159 <220> FEATURE:
        160 <223> OTHER INFORMATION: synthetic peptide
W-->    162 <221> NAME/KEY: VARIANT
        163 <222> LOCATION: (1)...(2)
        164 <223> OTHER INFORMATION: Xaa = any amino acid
W-->    166 <400> 9
W-->    167 Xaa Xaa Arg Ala Trp Trp
        168 1               5
        171 <210> SEQ ID NO: 10
        172 <211> LENGTH: 6
        173 <212> TYPE: PRT
        174 <213> ORGANISM: Artificial Sequence
        176 <220> FEATURE:
        177 <223> OTHER INFORMATION: synthetic peptide
W-->    179 <221> NAME/KEY: VARIANT
        180 <222> LOCATION: (1)...(2)
        181 <223> OTHER INFORMATION: Xaa = any amino acid
W-->    183 <400> 10
W-->    184 Xaa Xaa Cys Lys Trp Trp
        185 1               5
        188 <210> SEQ ID NO: 11
        189 <211> LENGTH: 6
        190 <212> TYPE: PRT
        191 <213> ORGANISM: Artificial Sequence
        193 <220> FEATURE:
        194 <223> OTHER INFORMATION: synthetic peptide
W-->    196 <221> NAME/KEY: VARIANT
        197 <222> LOCATION: 1, 2
        198 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W-->    200 <400> 11
W-->    201 Xaa Xaa Phe Trp Trp Trp
        202 1               5
        205 <210> SEQ ID NO: 12
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      206 <211> LENGTH: 6
      207 <212> TYPE: PRT
      208 <213> ORGANISM: Artificial Sequence
      210 <220> FEATURE:
      211 <223> OTHER INFORMATION: synthetic peptide
W--> 213 <221> NAME/KEY: VARIANT
      214 <222> LOCATION: 1, 2
      215 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 217 <400> 12
W--> 218 Xaa Xaa Leu Trp Trp Trp
      219 1               5
      222 <210> SEQ ID NO: 13
      223 <211> LENGTH: 6
      224 <212> TYPE: PRT
      225 <213> ORGANISM: Artificial Sequence
      227 <220> FEATURE:
      228 <223> OTHER INFORMATION: synthetic peptide
W--> 230 <221> NAME/KEY: VARIANT
      231 <222> LOCATION: 1, 2
      232 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 234 <400> 13
W--> 235 Xaa Xaa Trp Leu Trp Trp
      236 1               5
      239 <210> SEQ ID NO: 14
      240 <211> LENGTH: 6
      241 <212> TYPE: PRT
      242 <213> ORGANISM: Artificial Sequence
      244 <220> FEATURE:
      245 <223> OTHER INFORMATION: synthetic peptide
W--> 247 <221> NAME/KEY: VARIANT
      248 <222> LOCATION: 1, 2
      249 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 251 <400> 14
W--> 252 Xaa Xaa Trp Trp Trp Trp
      253 1               5
      256 <210> SEQ ID NO: 15
      257 <211> LENGTH: 6
      258 <212> TYPE: PRT
      259 <213> ORGANISM: Artificial Sequence
      261 <220> FEATURE:
      262 <223> OTHER INFORMATION: synthetic peptide
W--> 264 <221> NAME/KEY: VARIANT
      265 <222> LOCATION: (1)...(2)
      266 <223> OTHER INFORMATION: Xaa=any amino acid
W--> 268 <400> 15
W--> 269 Xaa Xaa Leu Lys Trp Trp
      270 1               5
      273 <210> SEQ ID NO: 16
      274 <211> LENGTH: 68
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```
      275 <212> TYPE: PRT
      276 <213> ORGANISM: Artificial Sequence
      278 <220> FEATURE:
      279 <223> OTHER INFORMATION: consensus sequence
W--> 281 <221> NAME/KEY: VARIANT
      282 <222> LOCATION: 1-3,6,9,10,13,14,16,18-21,24,30,32,33,35,37,40,42-44,46,
      283       47,49-51,53-57,59,61,62,64,66
      284 <223> OTHER INFORMATION: Xaa=Any amino acid
W--> 286 <221> VARIANT
      287 <222> LOCATION: 15
      288 <223> OTHER INFORMATION: Xaa=any amino acid that may or may not be present
W--> 290 <221> VARIANT
      291 <222> LOCATION: 5,17,28,29,45,68
      292 <223> OTHER INFORMATION: Xaa=a hydrophobic amino acid
W--> 294 <221> VARIANT
      295 <222> LOCATION: 7
      296 <223> OTHER INFORMATION: Xaa=serine or threonine
W--> 298 <221> VARIANT
      299 <222> LOCATION: 8,67
      300 <223> OTHER INFORMATION: Xaa=phenylalanine or tyrosine
W--> 302 <221> VARIANT
      303 <222> LOCATION: (12)...(12)
      304 <223> OTHER INFORMATION: Xaa=proline that may or may not be present
W--> 306 <221> VARIANT
      307 <222> LOCATION: (52)...(52)
      308 <223> OTHER INFORMATION: Xaa=aspartic or glutamic acid
W--> 310 <221> VARIANT
      311 <222> LOCATION: (60)...(60)
      312 <223> OTHER INFORMATION: Xaa=a basic amino acid (e.g. Arg, His, or Lys)
W--> 314 <400> 16
W--> 315 Xaa Xaa Xaa Arg Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa
      316  1               5                  10                  15
W--> 317 Xaa Xaa Xaa Xaa Xaa Leu Ala Xaa Ala Gly Phe Xaa Xaa Xaa Gly Xaa
      318               20                  25                  30
W--> 319 Xaa Asp Xaa Val Xaa Cys Phe Xaa Cys Xaa Xaa Xaa Xaa Xaa Trp
      320           35                  40                  45
W--> 321 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Pro Xaa
      322       50                  55                  60
W--> 323 Cys Xaa Xaa Xaa
      324 65
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/29/2004
PATENT APPLICATION: **US/10/748,128A**   TIME: 12:40:44

Input Set : **A:\666821-058(2).TXT**
Output Set: **N:\CRF4\10292004\J748128A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 4
Seq#:7; Xaa Pos. 1,2
Seq#:8; Xaa Pos. 1,2
Seq#:9; Xaa Pos. 1,2
Seq#:10; Xaa Pos. 1,2
Seq#:11; Xaa Pos. 1,2
Seq#:12; Xaa Pos. 1,2
Seq#:13; Xaa Pos. 1,2
Seq#:14; Xaa Pos. 1,2
Seq#:15; Xaa Pos. 1,2
Seq#:16; Xaa Pos. 1,2,3,5,6,7,8,9,10,12,13,14,15,16,17,18,19,20,21,24,28,29
Seq#:16; Xaa Pos. 30,32,33,35,37,40,42,43,44,45,46,47,49,50,51,52,53,54,55
Seq#:16; Xaa Pos. 56,57,59,60,61,62,64,66,67,68

VERIFICATION SUMMARY   DATE: 10/29/2004
PATENT APPLICATION: **US/10/748,128A**   TIME: 12:40:44

Input Set : **A:\666821-058(2).TXT**
Output Set: **N:\CRF4\10292004\J748128A.raw**

```
L:38  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:42  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:43  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:94  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:98  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:102 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:128 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:132 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:145 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:149 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:162 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:166 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:179 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:183 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:196 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:200 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:213 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:217 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:230 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:234 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:247 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:251 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:264 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:268 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:281 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:286 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:290 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:294 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:298 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:302 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:306 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:310 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:314 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:16
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:32
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:48
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:64
```